

4 January 1995

## **STRATEGIC AUTOMATED COMMAND AND CONTROL SYSTEMS (SACCS) MAINTENANCE**

**1. Mission Statement.** The Primary mission of SACCS Maintenance is to maintain SACCS equipment, which is in support of the worldwide record data command and control communications requirements of the National Command Authority and USSTRATCOM. SACCS is an integral part of the World Wide Military Command and Control System. It is the primary means for dissemination of emergency war orders to ACC's bombers, AMC's tankers, and AFSPACECOM's ICBMs that have a SIOP mission and would align under USSTRATCOM during a nuclear threat situation.

**2. Authority.** The 21-series of Air Force and command directives contain policy and procedural guidance for the Strategic Automated Command and Control Systems Maintenance function. This standard was developed IAW AFI 38-201.

**3. Applicability.** This standard applies to peacetime operations only. It covers only maintenance duties (no operator duties), and applies to all units having this function except the following:

3.1. Combat Communications Units.

3.2. Air National Guard and Air Force Reserve units.

3.3. Centralized Repair Activities (CRAs).

3.4. 3380 CS, Keesler AFB MS.

3.5. Locations undergoing AFI 38-203 cost comparison studies will be exempt from application. Both a positive and negative mission variance must be developed for all work within the organization that has undergone a cost comparison study.

**4. Core Composition.** N/A.

### **5. Standard Data:**

5.1. Classification. Type III

5.2. Approval Date. 1 July 1994

5.3. Man-hour Equation. Staffing Pattern. See Configuration Matrix at Attachment 2.

5.4. Workload Factor. Equipment configurations

5.5. Study Team:

5.5.1. AFCOMMET Representatives:

5.5.1.1. Ms Shenita Clay, AFCOMMET/MOMC, DSN 576-3404.

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**6. Application Instructions:**

6.1. Determine what equipment configurations are at your location.

6.2. Locate the line on the Configuration Matrix at Attachment 2 that lists the equipment configurations at your base. The matrix identifies all known equipment configuration groupings. If your location maintains a grouping of configurations or system not listed, submit a variance describing the system being maintained; state the rationale for maintaining the system, and the directive requiring your location to maintain it.

6.3. Identify the number of manpower authorizations your location earns according to the Configuration Matrix at Attachment 2.

6.4. Refer to the Standard Manpower Table at Attachment 3 to determine the appropriate skill and grade mix.

**7. Statement of Conditions.** The following conditions may impact the work center's ability to perform work:

7.1. Climatic Conditions. Extreme temperatures may adversely effect the performance of the equipment, and therefore, increase the frequency of unscheduled maintenance required.

7.2. Physical Layout of Facilities. The work center itself is normally not located with the equipment it maintains. Travel time is required to accomplish work. Climatic conditions affect travel time.

**8. Miscellaneous.**

8.1. Definition of Terms:

8.1.1. AWCP. Air Wing Command Post.

8.1.2. BCP. Base Communications Processor.

8.1.3. SCP. Subnet Communications Processor.

8.1.4. SUTE. Soft User Terminal Element.

8.1.5. MBCP. Missile Base Communications Processor.

8.1.6. HUTE. Hard User Terminal Element.

8.2. Level of Service. The Level of Service for each SACCS configuration and variations to those configurations are as follows:

8.2.1. AWCP. Single shift maintenance at 40 hours per week, plus on-call maintenance for unscheduled outages.

8.2.2. BCP. Single shift maintenance at 40 hours per week, plus on-call maintenance for unscheduled outages.

8.2.3. BCP Variation #1. Single shift maintenance at 40 hours per week, plus on-call maintenance for unscheduled outages; with 72 hour response to SUTE.

8.2.4 SCP. Three shift maintenance seven days per week; providing immediate response.

8.2.5. SCP Variation #1. Three shift maintenance seven days per week; providing immediate response for SCP, and dispatch to AWCP in 60 minutes or less.

8.2.6. SCP Variation #2. Three shift maintenance seven days per week; providing immediate response for SCP, and simultaneous dispatch to AWCP and SUTE. This site also maintains a variety of non-standard equipment and supports the mission as the Main Node for the whole network. There is a 60 minute or less response to the AWCP and within 72 hour response to the SUTE.

8.2.7. SUTE. Single shift maintenance at 40 hours per week, plus on-call maintenance for unscheduled outages.

8.2.8. BCP at Missile Sites. Single shift maintenance at 40 hours per week, plus on-call maintenance for unscheduled outages. Manpower authorizations based on two-man crews dispatching to each MBCP simultaneously while two remain in work center.

8.3. Manpower levels are based on the configuration being maintained. Additional equipment considered to be a part of the configuration is not appropriate rationale for submitting a variance. However, variances for the addition or deletion of a configuration should be submitted for review.

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4 Attachments

1. Work Center Description
2. Configuration Matrix
3. Standard Manpower Table
4. Variances

## **WORK CENTER DESCRIPTION**

### **Strategic Automated Command and Control System (SACCS) Maintenance**

#### **1. SCHEDULED MAINTENANCE:**

- 1.1. **PERFORMS PREVENTIVE MAINTENANCE INSPECTION (PMI).** Coordinates equipment downtime and other pertinent data with appropriate agency; arranges for escort; prepares material, technical data, tools, and test equipment; obtains access. Sets up test equipment, calibrates, cleans, services, inspects, performs corrosion control, and returns equipment to normal configuration. Coordinates equipment restoral; cleans work area; stores tools, materials, technical data, and test equipment; defers routine maintenance action; and completes documentation.
- 1.2. **ACCOMPLISHES EQUIPMENT MODIFICATION.** Notifies appropriate agency; obtains and reviews directive; obtains test equipment, tools, material, and vehicle; and prepares work area. Performs equipment modification, removes, replaces, aligns, adjusts, calibrates, lubricates and cleans; and accomplishes performance check. Notifies appropriate agency of completed action, returns material, technical data, tools, test equipment and vehicle, and completes documentation.
- 1.3. **ACCOMPLISHES SOFTWARE CONFIGURATION UPDATE.** Notifies appropriate agency; completes software problem report; and obtains and reviews applicable publications. Prepares work area; removes and replaces obsolete software; aligns, adjusts, calibrates, and accomplishes performance check. Notifies appropriate agency of completed action; returns publications, and completes documentation.

#### **2. UNSCHEDULED MAINTENANCE:**

- 2.1. **PERFORMS SYSTEM FAULT ISOLATION.** Coordinates with external agencies to isolate system fault, and assists with system restoral.
- 2.2. **PERFORMS ORGANIZATIONAL LEVEL REPAIR.** Acknowledges notification of malfunction and queries individual for pertinent information. Gathers technical data, tools, documentation, test equipment, and spare parts; obtains access. Isolates defect with-in system to a Line Replaceable Unit (LRU) by use of indicators and on-line diagnostic programs. Initiates documentation, performs on-line removal and replacement of failed LRU, and performs systems verification. Coordinates equipment restoral; cleans work area; gathers and stores technical data, tools, documentation, test equipment and parts. Defers maintenance to intermediate level; and completes documentation.
- 2.3. **PERFORMS INTERMEDIATE LEVEL REPAIR.** Gathers technical data, tools, documentation, and failed LRU; sets up test set work area. Troubleshoots to isolate defect within the failed LRU to a defective Shop Replaceable Unit (SRU) by using test set and computer diagnostic programs; removes and replaces SRU. Cleans work area; stores technical data and tools, places serviceable LRU in storage, prepares LRUs and SRUs for shipment to higher level repair activities, turns in to supply LRUs and SRUs for shipment, and completes documentation.
- 2.4. **INPUTS REPAIR DOCUMENTATION INTO CAMS.** Extracts data from completed 349s (if used) and enters data into CAMS.

3. **PERFORMS MAINTENANCE ON SUPPORT EQUIPMENT.** Gathers tools, technical data, and test equipment; sets up test equipment, troubleshoots to identify problem, and notifies Maintenance Control of problem. Obtains part; disassembles, cleans, and replaces defective part; tests and adjusts system; returns equipment to normal configuration; performs performance check; disassembles test equipment; returns tools, technical data, and test equipment; cleans and stores material; and notifies Maintenance Control of completed action.

#### **4. PROJECT/MAINTENANCE ASSISTANCE TEAM SUPPORT:**

- 4.1. **RECEIVES INITIAL PROJECT PACKAGE.** Receives and reviews project package; reviews cover letter, program support agreement (PSA), consolidated list of materials, related scheme, task list, and drawings/sketches; assists in site survey and provides technical assistance; identifies and documents discrepancy; returns package to appropriate agency for corrective action.
- 4.2. **REVIEWS FINAL PROJECT PACKAGE.** Reviews package to ensure corrective actions were taken and adequate support is available for project completion.
- 4.3. **MONITORS INSTALLATION.** Coordinates with appropriate agency for entry into area; and provides personnel to assist during the installation of equipment.
- 4.4. **ASSISTS IN TESTING.** Coordinates with and assists the Project Maintenance Team by providing technical assistance and performing tasks, as necessary.

4.5. PROVIDES MAINTENANCE ASSISTANCE TEAM SUPPORT. Receives requirement; coordinates with and assists agency; obtains and reviews technical data; gathers test equipment, tools, and support equipment; prepares work area; and initiates documentation. Monitors and provides logistical and technical assistance to the maintenance team during modification, repairing, or rehabilitation of component or system. Cleans work area; stores technical data, test equipment, tools, and support equipment; completes documentation.

4.6. PERFORMS MINOR INSTALLATION AND REMOVAL. Receives and reviews job to determine job requirement; coordinates with and assists appropriate agency; obtains and reviews directive; obtains test equipment, tools, material, and spare parts; loads and unloads vehicle, and prepares work area. Installs applicable new equipment; removes and installs existing local unit level equipment; resets, aligns, adjusts, calibrates, lubricates, cleans, and accomplishes performance check. Coordinates with appropriate agency; cleans work area; loads and unloads vehicle; stores tools, material, technical data, and equipment; and completes documentation.

5. EQUIPMENT PARTS ACQUISITION:

5.1. ORDERS PART. Obtains applicable technical order; researches stock number and other pertinent data; completes documentation; and submits request.

5.2. PERFORMS DUE-OUT VALIDATION. Reviews supply listing to verify status of parts requisitioned.

5.3. MAINTAINS BENCH STOCK. Inventories bench stock to identify items requiring refill.

5.4. MAINTAINS FORWARD SUPPLY POINT (FSP). Prepares annual justification; conducts annual inventory and completes documentation.

5.5. PERFORMS FUNCTION CHECK OF FSP ASSET. Notifies appropriate agency; obtains and reviews technical data; obtains tools, tests equipment and assembly; and prepares work area. Installs assembly; performs operational check; removes assembly; and restores equipment to operation. Cleans work area, stores tools, test equipment, and technical data; returns assembly to forward supply point, and completes documentation.

5.6. SUBMITS DEFICIENCY REPORT. Notifies appropriate agency; prepares justification and submits report. Initiates follow-up action on supply level; and receives/turns in equipment.

6. MAINTENANCE STANDARDIZATION AND EVALUATION PROGRAM (MSEP):

6.1. ASSISTS IN MAINTENANCE SUPPORT INSPECTION. Coordinates with and assists the maintenance support inspector performing the inspection by providing technical assistance and performing tasks, as necessary.

6.2. PERFORMS PERSONNEL EVALUATION. Receives evaluation notice; coordinates with appropriate agency; obtains tools, technical data, test equipment, and materials. Performs the task selected by the inspector. Returns tools, technical data, test equipment, materials, and completes documentation.

7. TRAVEL:

7.1. PERFORMS TRAVEL DURING DUTY HOURS. Prepares for and performs travel (on or off base) to and from location of equipment requiring maintenance.

7.2. PERFORMS ON-CALL TRAVEL. Performs travel from domicile to place of duty to perform unscheduled maintenance after normal duty hours and on weekends, and returns to domicile.

**SACCS Maintenance Element****CONFIGURATION MATRIX**

<b>CONFIGURATIONS</b>	<b>SUPPORT EQUIPMENT</b>	<b>ADDITIONAL CONFIGURATIONS</b>	<b>EARNED MANPOWER</b>
AWCP	LVR	N/A	3
BCP	LVR	N/A	3
BCP Variation #1	LVR	SUTE	3
SCP	CMTS & PSTS	N/A	7
SCP Variation #1	CMTS & PSTS	AWCP	8
SCP Variation #2	CMTS & PSTS	AWCP & SUTE	9
SUTE	LVR	N/A	3
BCP (Missile Bases)	MMTS & PSTS	* 1 MBCP & 4 HUTE	2/#2

\*There is 1 MBCP and 4 HUTEs per missile squadron.

# Two additional authorizations are earned per missile squadron supported.

STANDARD MANPOWER TABLE											
WORK CENTER/FAC			APPLICABILITY MAN-HOUR RANGE								
SACCS Maimtenance/2670CO/DO			Staffing Pattern								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Elect Comp & Swg Sys Crftmn	2E271	MSG						1	1	1	1
Elect Comp & Swg Sys Crftmn	2E271	TSG	1	1	1	1	1		1	1	1
Elect Comp & Swg Sys Jrnymn	2E251	SSG		1	1	1	2	2	2	2	2
Elect Comp & Swg Sys Jrnymn	2E251	SRA	1	1	2	2	2	3	3	3	4
Elect Comp & Swg Sys Apr, SACDIN	2E231L	A1C				1	1	1	1	2	2
TOTAL			2	3	4	5	6	7	8	9	10
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Elect Comp & Swg Sys Crftmn	2E271	MSG	1	1	1	1	1				
Elect Comp & Swg Sys Crftmn	2E271	TSG	1	1	1	1	1				
Elect Comp & Swg Sys Jrnymn	2E251	SSG	3	3	3	4	4				
Elect Comp & Swg Sys Jrnymn	2E251	SRA	4	4	5	5	5				
Elect Comp & Swg Sys Apr, SACDIN	2E231L	A1C	2	3	3	3	4				
TOTAL			11	12	13	14	15				

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**SACCS Maintenance Element**

**Variance**

Positive mission variance for Software Test Facility (STF) Maintenance.

Definition. Maintains the STF.

Impact. +3

Applicability. Offutt AFB only